

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 03/05369

A. CLASSIFICATION OF SUBJECT MATTER	IPC 7 G11B20/00	G11B20/10	G11B7/00	H03M13/41
-------------------------------------	-----------------	-----------	----------	-----------

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B H03M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 590 851 A (PIONEER ELECTRONIC CORP) 6 April 1994 (1994-04-06) abstract column 3, line 48 - column 7, line 52 figures 3,5-7	1-8, 10-19 9
Y	WEEKS W: "Full-Surface Data Storage" THESIS SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN ELECTRICAL ENGINEERING IN THE GRADUATE COLLEGE OF THE UNIVERSITY OF ILLINOIS AT URBANA- CHAMPAIGN, XX, XX, 2000, page complete, XP002227664 page 1, line 1 - page 11 page 18, paragraphs 2,3 figure 2.2	9
	-/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the International search

11 May 2004

Date of mailing of the International search report

19/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Valencia, E

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/05369

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	BERGMANS J W M: "Digital Baseband Transmission and Recording, VITERBI DETECTION" DIGITAL BASEBAND TRANSMISSION AND RECORDING, BOSTON , MA : KLUWER ACADEMIC PUBL, US, 1996, pages 301-368,370, XP002238821 ISBN: 0-7923-9775-4 cited in the application the whole document -----	1-19

## INTERNATIONAL SEARCH REPORT

Information on patent family members

ational Application No

C.I./IB 03/05369

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0590851	A 06-04-1994	JP 6111344	A	22-04-1994
		DE 69317844	D1	14-05-1998
		DE 69317844	T2	17-09-1998
		EP 0590851	A1	06-04-1994
		US 5610883	A	11-03-1997